

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 879 854 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
24.02.1999 Bulletin 1999/08

(51) Int. Cl.⁶: **C08L 101/00**

(43) Date of publication A2:
25.11.1998 Bulletin 1998/48

(21) Application number: **98303063.6**

(22) Date of filing: **21.04.1998**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **21.04.1997 JP 103167/97**

(71) Applicant:
TORAY INDUSTRIES, INC.
Tokyo 103-8666 (JP)

(72) Inventors:
• **Noda, Shunsaku**
Iyo-gun, Ehime 791-3120 (JP)
• **Oosedo, Hiroki**
Iyo-gun, Ehime 791-3120 (JP)
• **Oki, Nobuaki**
Iyo-gun, Ehime 791-3120 (JP)

(74) Representative:
Coleiro, Raymond et al
MEWBURN ELLIS
York House
23 Kingsway
London WC2B 6HP (GB)

(54) **A resin composition for a fibre reinforced composite, a prepreg and a fibre reinforced composite**

(57) A resin composition for a fibre reinforced composite which can be used to produce a prepreg of reinforcing fibres impregnated with the resin, which prepreg is excellent in tackiness, drapability and windability around a mandrel composition is curable to provide the reinforced composite.

The resin composition comprises at least the following components A and B wherein the component B is soluble in the component A, component A is a thermosetting resin and component B is a thermoplastic resin having a weight average molecular weight of 200,000 to 5,000,000.

EP 0 879 854 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 98 30 3063

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	EP 0 530 869 A (DSM NV) 10 March 1993 * claims 2-4 *	1,2,6-9, 11-15,20	C08L101/00
X	EP 0 390 187 A (UNION CARBIDE CHEM PLASTIC) 3 October 1990 * claims 2,3,5 * * page 10, line 6 - line 52 *	1,2,6-9, 11-15,20	
X	WO 96 33688 A (REINFORCED POLYMER INC) 31 October 1996 * claims 1,6 * * page 14, line 23 - page 15, line 7 *	1,2,6-9, 13,15,20	
X	DATABASE WPI Section Ch, Week 9408 Derwent Publications Ltd., London, GB; Class A28, AN 94-062125 XP002088499 & JP 06 016788 A (NITTO DENKO CORP) , 25 January 1994 * abstract *	1,2,6, 11,13,15	
A	DATABASE WPI Section Ch, Week 9237 Derwent Publications Ltd., London, GB; Class A14, AN 92-304182 XP002088500 & JP 04 209651 A (INAX CORP), 31 July 1992 * abstract *	1	C08L C08J
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18 December 1998	Examiner Niaounakis, M
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

EPO FORM 1503 03/82 (P04C01)



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 98 30 3063

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	DATABASE WPI Section Ch, Week 9551 Derwent Publications Ltd., London, GB; Class A21, AN 95-401145 XP002088501 & JP 07 278412 A (TORAY IND INC) , 24 October 1995 * abstract * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	18 December 1998	Niaounakis, M	
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03 82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 30 3063

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

18-12-1998

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0530869 A	10-03-1993	JP 5255573 A	05-10-1993
		US 5455308 A	03-10-1995
EP 0390187 A	03-10-1990	AT 120771 T	15-04-1995
		CA 2013513 A	30-09-1990
		DE 69018296 D	11-05-1995
		DE 69018296 T	24-08-1995
		JP 3269055 A	29-11-1991
		US 5637630 A	10-06-1997
WO 9633688 A	31-10-1996	US 5747553 A	05-05-1998
		AU 5715196 A	18-11-1998